

Form PTO/SB/08 [modified] INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use several sheets if necessary)</i>	Docket No.: 13020-2-DIV	Application No.: 09/846,863
	Applicants: Goelet et al	
	Filing Date: May 1, 2001	Group Art Unit: 1634

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	CITE NO ¹	PUBLICATION NUMBER Number- Kind Code ² (if known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
BAL		5,192,659	03-09-1993	GeneType A.G.
BAL		5,612,179	03-18-1997	GeneType A.G.
BAL		5,789,568	08-04-1998	GeneType A.G.

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	CITE NO ¹	PUBLICATION NUMBER Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	T ⁶

OTHER DOCUMENTS

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EXAMINER: B. S. Lison	DATE CONSIDERED: 5/25/04
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.
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<i>Boh</i>	Deborah A. Nickerson <i>et al</i> , Identification of Clusters of a Biallelic Polymorphic Sequence-Tagged Sites (pSTSs) that Generate Highly Informative and Automatable Markers for Genetic Linkage Mapping, pages 377-387, (1991)

EXAMINER: <i>Boh-Lison</i>	DATE CONSIDERED: <i>5/25/04</i>
<small>1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 If possible. 6 Applicant is to place a check mark here if English language Translation is attached. Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>	



Sheet 1

Form PTOL 449 (Rev. 10-92) [modified] INFORMATION DISCLOSURE CITATION IN AN APPLICATION (use several sheets if necessary)	Docket No.: 13020-2 (DIV1)	Application No.: 09/846,863
	Applicants: Goelet et al.	
	Filing Date: 1 May 2001	Group Art Unit: 1655 <i>1674</i>

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
						YES	NO
<i>BAL</i>	0 1 2 3 5 1 3	10/31/84	EP				
<i>1</i>	8 9 1 0 9 7 7	11/16/89	WO				
<i>BAL</i>	9 2 1 0 5 8 9	06/25/92	WO				

OTHER DOCUMENTS

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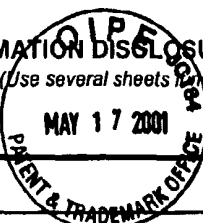
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1634
1655 (from parent)

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BLL	4,582,788	04/15/86	Erlich			
	4,683,194	07/28/87	Saiki et al.			
	4,683,195	07/28/87	Mullis et al.			
	5,175,082	12/29/92	Jeffreys			
	4,683,202	07/28/87	Mullis			
	5,234,811	08/10/93	Beutler			
	5,266,459	11/30/93	Beutler			
	5,429,923	07/04/95	Seidman et al.			
	5,200,314	04/06/93	Urdea			
BLL	5,851,762	12/22/98	Simons			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
BLL	EP 0050424	04/28/82	EP				
	EP 0084796	08/03/83	EP				
	EP 0201184	12/17/86	EP				
	EP 0237362	09/16/87	EP				
BLL	EP 0258017	03/02/88	EP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BLL	Chinault et al., Overlap hybridization screening: Isolation and characterization of overlapping DNA fragments surrounding the leu2 gene on yeast chromosome III, Gene, 5:111-126 (1979).
BLL	Clarke et al., Isolation of a yeast centromere and construction of functional small circular chromosomes, Nature 287:504-509 (1980).

EXAMINER

B. J. Lison

DATE CONSIDERED

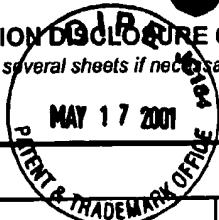
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						YES	NO
B&H	EP 0370719	05/03/90	EP				
I	UK 2135774	09/05/84	UK				
I	WO 91/14003	09/19/91	WIPO				
I	WO 92/15712	09/17/92	WIPO				
B&H	WO 91/02087	02/21/91	WIPO				X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

B&H		Skolnick et al., Strategies for detecting and characterizing restriction fragment length polymorphisms (RFLPs), Cell Genet 32:58-67 (1982).
B&H		Mullis et al., Specific enzymatic amplification of DNA in vitro: The Polymerase Chain Reaction, Cold Spring Harbor Symposia on Quantitative Biology, Vol. LI pp. 263-273 (1986).

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
BPA		FR 2650840	02/15/91	France			X	
		WO 91/10748	07/25/91	WIPO				
		WO 90/11369	10/04/90	WIPO				
		WO 90/13668	11/15/90	WIPO				
BPA		WO 89/10414	11/02/89	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BIL		Armour, J.A.L. et al., Recent advances in minisatellite biology, FEBS Lett. 307:113-115 (1992).
BdA		Jones, L. et al., Identical twin marrow transplantation for 5 patients with chronic myeloid leukaemia: Role of DNA finger-printing to confirm monozygosity in 3 cases, Eur. J. haematol. 39:144-147 (1987).

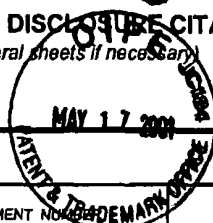
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
B/L	WO 90/09455	08/23/90	WIPO				
I	WO 92/16657	10/01/92	WIPO				
	EP 246864	11/25/87	EP				
B/L	WO 90/01069	02/08/90	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

B/L	Jeffreys, A.J. et al., DNA "Fingerprints" and Segregation Analysis of Multiple Markers in Human Pedigrees, Amer. J. Hum. Genet., 39:11-24 (1986).
B/L	Jeffreys, A.J. et al., Individual-specific fingerprints of human DNA, Nature, 316:76-79 (1985).

EXAMINER

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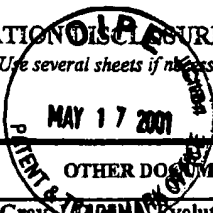
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INFORMATIONAL CITATION

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Docket Number (Optional)

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*EXAMINER
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Gray, T. A. Evolutionary transience of hypervariable minisatellites in man and the primates, Proc. R. Soc. Lond., 243:241-253 (1991).

Moore, S.S. et al., The Conservation of Dinucleotide Microsatellites among Mammalian Genomes Allows the Use of Heterologous PCR Primer Pairs in Closely Related Species, Genomics, 10:654-660 (1991).

Jeffreys, A.J. et al., DNA fingerprints of dogs and cats, Anim. Genet., 18:1-15 (1987).

Hillel, J. et al., DNA fingerprints of poultry, Anim. Genet., 20:145-155 (1989).

Hillel, J. et al., DNA Fingerprints Applied to Gene Introgression in Breeding Programs, Genet., 124:783-789 (1990).

Saiki, R. et al., A Novel Method for the Detection of Polymorphic Restriction Sites by Cleavage of Oligonucleotide Probes: Application to Sickle-Cell Anemia, Biotechnology, 3:1008-1012 (1985).

Rudolph, J. et al., Linkage of hyperkalaemic periodic paralysis in Quarter horses to the horse adult skeletal muscle sodium channel gene, Anim. Genet., 23:241-250 (1992).

Ng-Kwai-Hang, K. et al., Identification of K-Casien Genotype in Holstein Sires: A Comparison Between Analysis of Milk Samples from Daughters and Direct Analysis of Semen Samples from Sires by Polymerase Chain Reaction, J. Dairy Sci., 74:2410-2415 (1991).

White, M. et al., Detecting Single Base Substitutions as Heteroduplex Polymorphisms, Genomics, 12:301-306 (1992).

Frohman, M. et al., Rapid production of full-length cDNAs from rare transcripts: amplification using a single gene-specific oligonucleotide primer, Proc. Natl. Acad. Sci. USA, 85:8998-9002 (1988).

Mullis, K., The Unusual Origin of the Polymerase Chain Reaction, Scientific American, April:56-65 (1990).

Mitsuhashi, M. et al., Gene manipulation on plastic plates, Nature, 357:519-520 (1992).

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INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Prober, J. et al., A System for Rapid DNA Sequencing with Fluorescent Chain-Terminating Dideoxynucleotides, Science, 238:336-340 (1987).

Kim, C.H. et al., Genomic Variation and Segregation of Equine Infectious Anemia Virus during Acute Infection, J. Virol., 66:3879-3882 (1992).

Biswas, B. et al., Gene Amplification by Polymerase Chain Reaction for Detection of Ehrlichia risticii DNA in Potomac Horse Fever, Annals NY Acad. Sci., 590:582-583 (1990).

Biswas, B. et al., Diagnostic Application of Polymerase Chain Reaction for Detection of Ehrlichia risticii in Equine Monocytic Ehrlichiosis (Potomac Horse Fever), J. Clin. Microbiol., 29:2228-2233 (1991).

Olive, D.M. et al., Detection and differentiation of picornaviruses in clinical samples following genomic amplification, J. Gen. Virol., 71:2141-2147 (1990).

Wheeler, J.G. et al., Investigation of sites of pseudorabies virus latency, using polymerase reaction, Amer. J. Vet. Res., 52:1799-1802 (1991).

Ellengren, H. et al., Cloning of highly polymorphic microsatellites in the horse, Animal Genetics, 23:133-142 (1992).

Lander, S. et al., Strategies for studying heterogeneous genetic traits in humans by using a linkage map of restriction fragment length polymorphisms, Proc. Natl. Acad. Sci. USA, 83:7353-7357 (1986).

Lander, S. et al., Construction of multilocus genetic linkage maps in humans, Proc. Natl. Acad. Sci. USA, 84:2363-2367 (1987).

Donis-Keller, H. et al., A Genetic Linkage Map of the Human Genome, Cell, 51:319-337 (1987).

Lander, S. et al., Mapping Mendelian Factors Underlying Quantitative Traits Using RFLP Linkage Maps, Genetics, 121:185-199 (1989).

Ainsworth et al., "Identification and Characterization of sporadic and inherited mutations in exon 31 of the neurofibromatosis (NF1) gene, Human Genetics, Vol. 19, No. 2, pages 151-156, (1993).

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Neuhoff et al., "Application of the polymerase chain reaction to the diagnosis of human genetic disease", Human Genetics, Vol. 85, No. 1, p.1-8 (1990).

Botstein, David et al., "Construction of a Genetic Linkage Map in Man Using Restriction Fragment Length Polymorphisms", Am J Hum Genet. 32:314-331 (1980).

Gusella, J.F., "DNA Polymorphism and Human Disease", Ann. Rev. Biochem., 55:831-54 (1986).

Sommer et al., "Minimal homology requirements for PCR primers", Nucleic Acids Research, Vol. 17:6749 (1989).

Blum et al., "Molecular mechanism of slow acetylation of drugs and carcinogens in humans", Proc. Natl. Acad. Sci., 88:p.5237-5241 (1991).

Weissenbach, Jean, "A Second Generation Linkage Map of the Human Genome Based on Highly Informative Microsatellite Loci," Gene, 135:275-278 (1993).

Weissenbach, Jean, "Microsatellite Polymorphisms and the Genetic Linkage Map of the Human Genome," Curr. Opin. Genet. Dev., 3:414-417 (1993).

Hearne, Catherine M. et al., "Microsatellites for Linkage Analysis of Genetic Traits," Trends Genet., 8:288-294 (August 1992).

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